APPROVED O.G. FIG.

DY CLASS SUBCLASS

DESPTEMBLY

E. HERNANDEZ-VALENCIA 13-4-7-24.

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FIG. 1

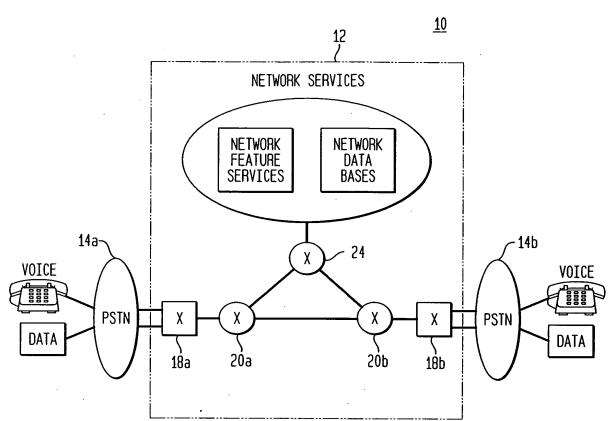
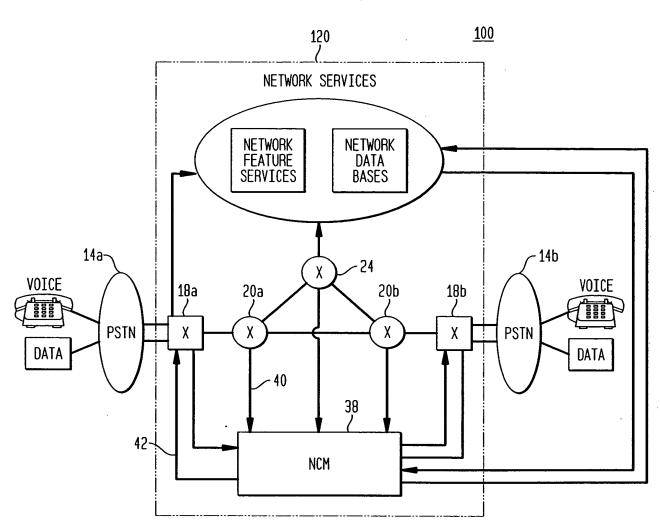


FIG. 2



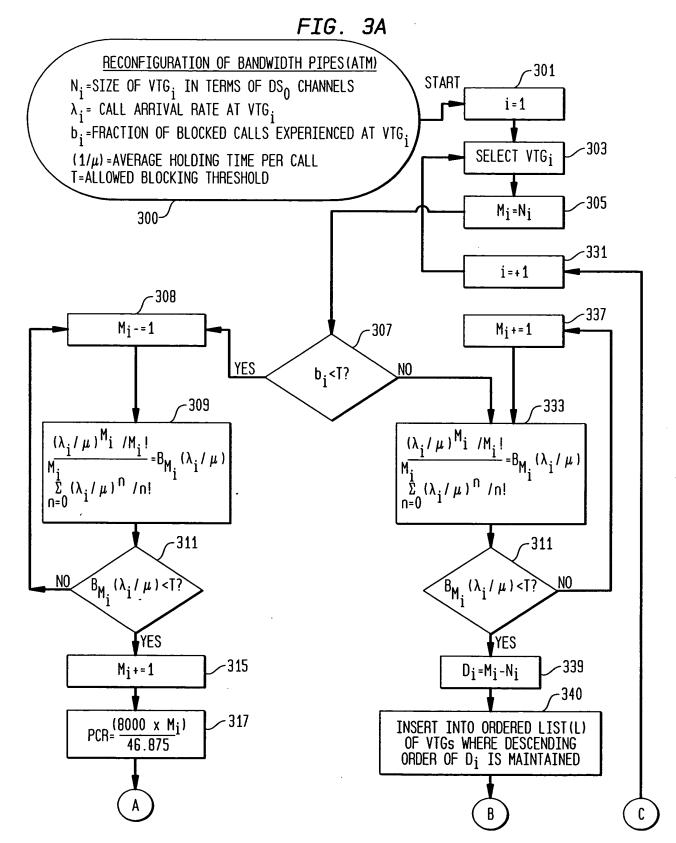


FIG. 3B

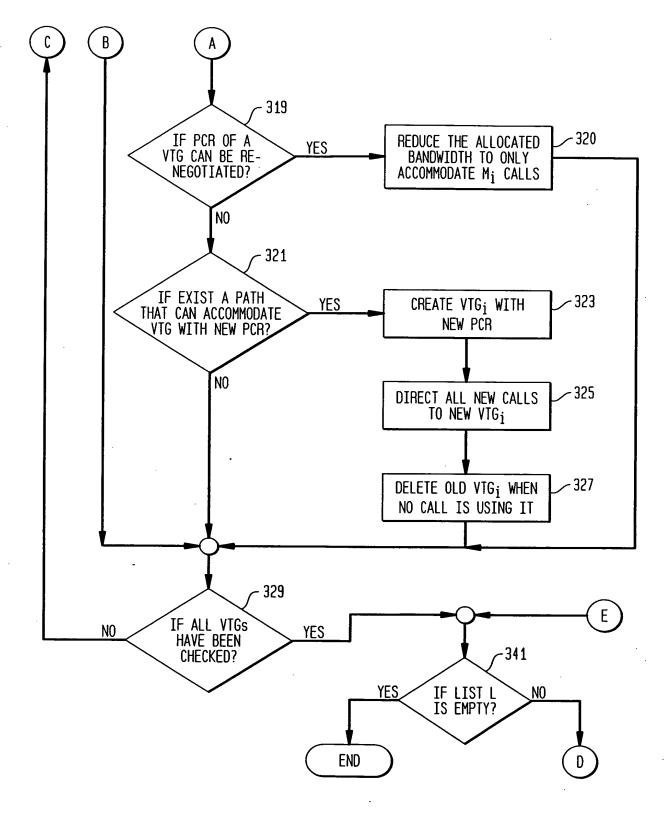
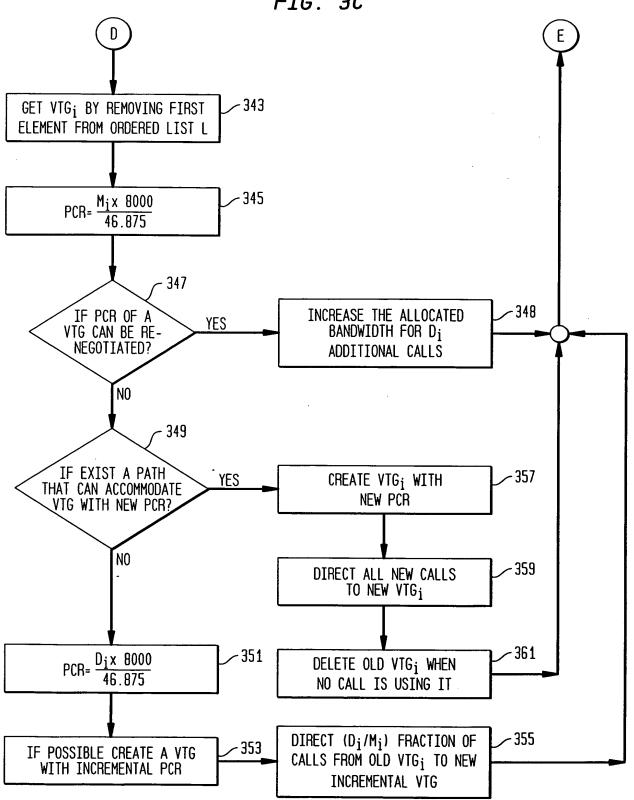
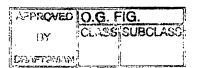
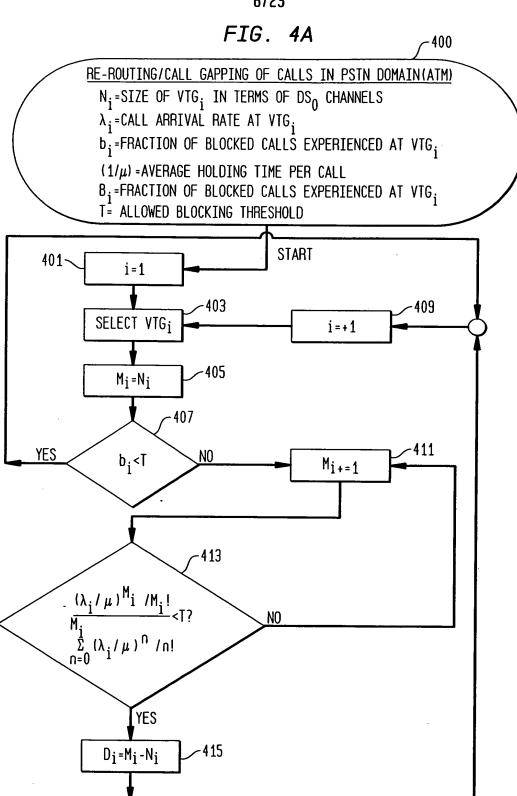


FIG. 3C







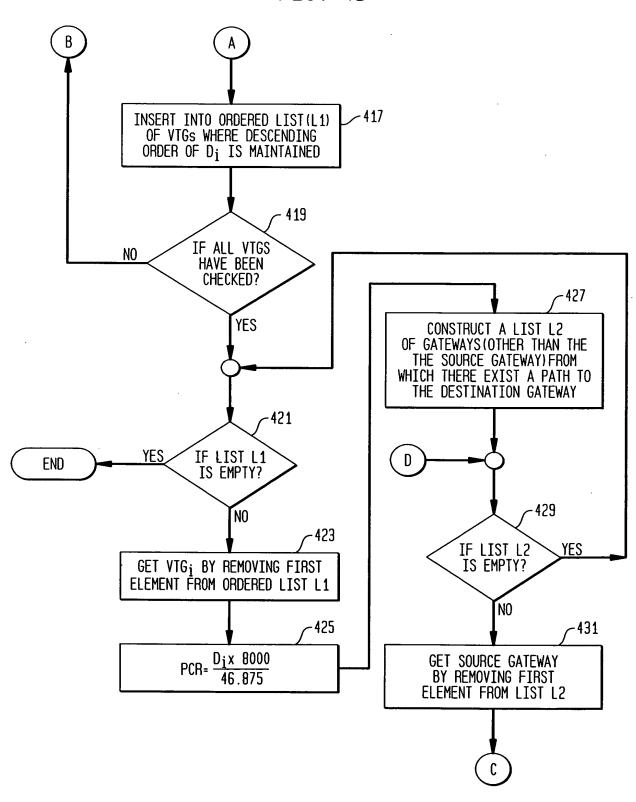
APPROVED O.G. FIG.

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DESTROMAN

E. HERNANDEZ-VALENCIA 13-4-7-24

FIG. 4B



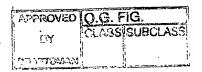
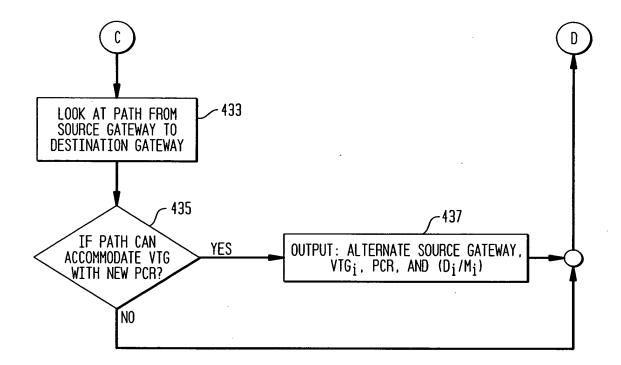


FIG. 4C



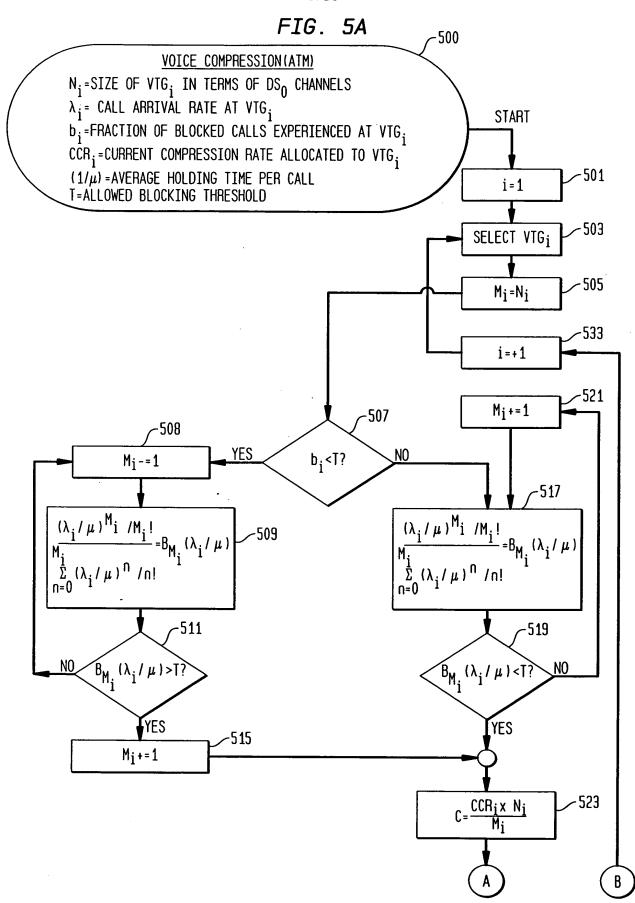
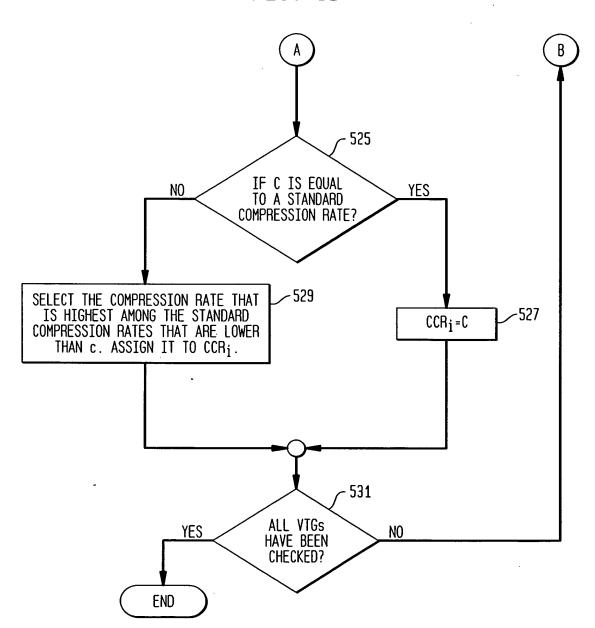


FIG. 5B



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FIG. 6A

600

CALL BLOCKING (UNAVAILABILITY OF RTP MEASUREMENTS)

PU; =UTILIZATION OF i th PORT

PC_i=CAPACITY OF ith PORT

U_t=UTILIZATION THRESHOLD

λ_ν=CALL ARRIVAL RATE FOR kth PVG PAIR

 N_k =NUMBER OF CALLS FOR WHICH BANDWIDTH IS ALLOCATED TO k^{th} PVG PAIR

 ρ_{B_i} =BANDWIDTH REDUCTION CORRECTION FACTOR DUE TO THE $i^{\mbox{th}}$ PORT

 $p_{G_{i}}^{1}$ =BANDWIDTH INCREMENTAL CORRECTION FACTOR DUE TO THE i^{th} PORT

f_k=BANDWIDTH REDUCTION CORRECTION FACTOR ASSIGNED TO THE kth PVG PAIR

e_k=BANDWIDTH INCREMENTAL CORRECTON FACTOR ASSIGNED TO THE kth PVG PAIR

B_k=ASSIGNED BLOCKING PROBABILITY TO THE kth PVG PAIR

 $(1/\mu)$ = AVERAGE CALL HOLDING TIME

T=BLOCKING THRESHOLD

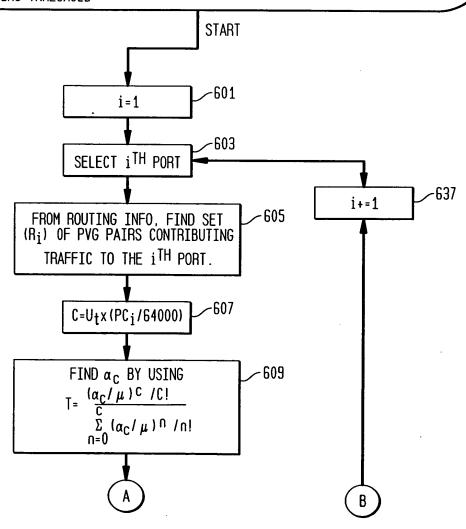


FIG. 6B

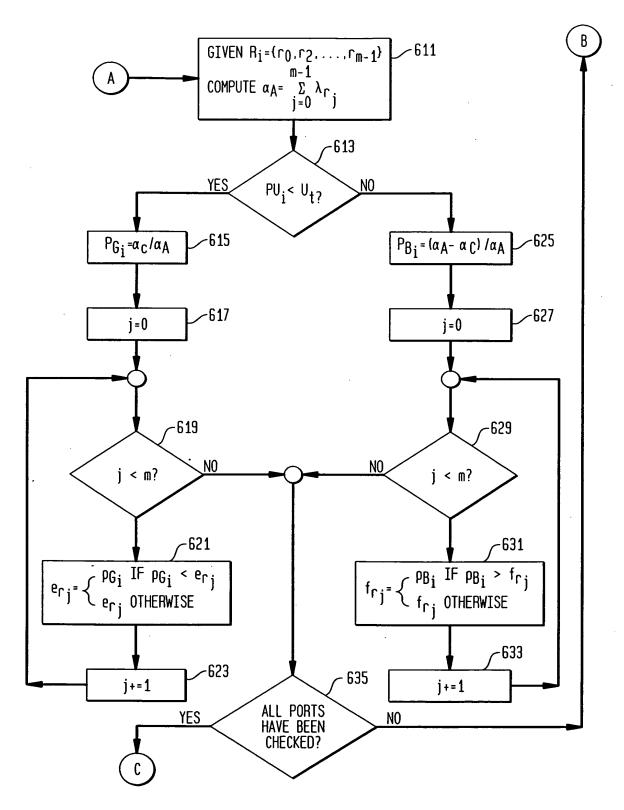
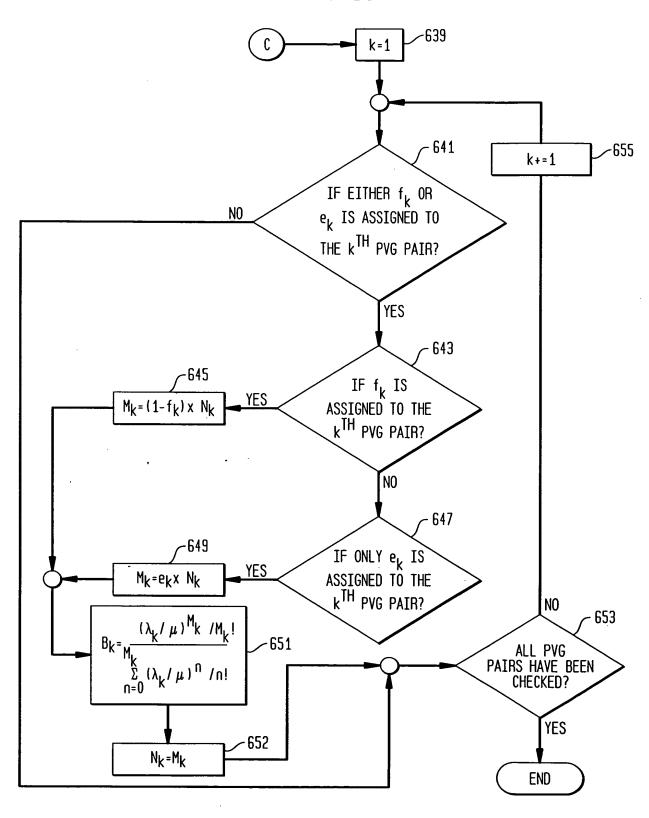
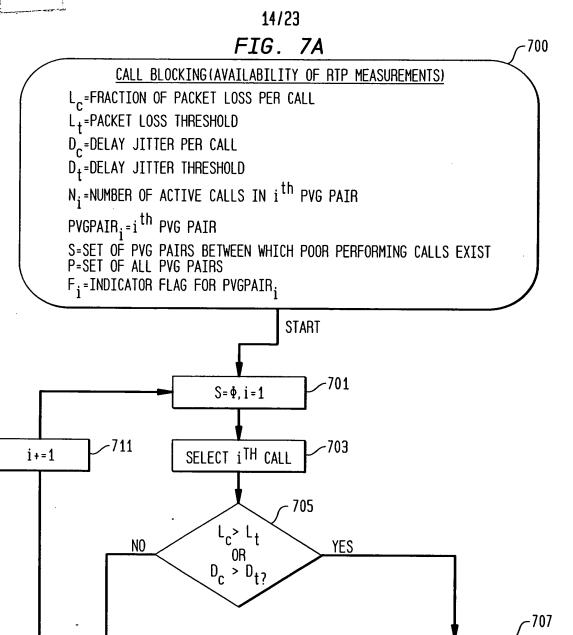


FIG. 6C





PAIR. S = S (PVGPAIR_j)

ALL CALLS
HAVE BEEN
CHECKED?

FOR EACH ELEMENT IN Q MAKE
F_i=1 (i.e. ADMIT NEW CALLS)

A

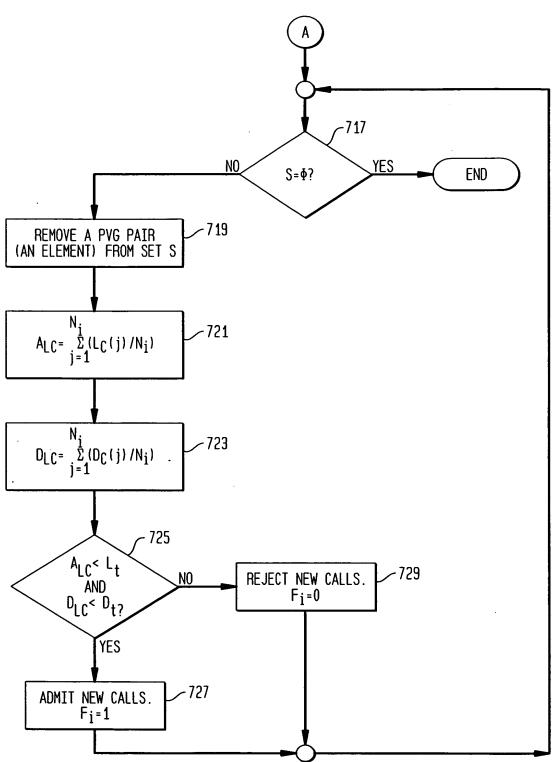
GIVEN i^{TH} CALL IS BETWEEN j^{TH} PVG

-715

CLASCUBAL X

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FIG. 7B



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FIG. 8A

-800

RE-ROUTING/CALL GAPPING (AVAILABILITY/UNAVAILABILITY OR RTP MEASUREMENTS) $\begin{array}{l} \text{PU}_i \text{=} \text{UTILIZATION OF } i^{th} \text{ PORT} \\ \text{PC}_i \text{=} \text{CAPACITY OF } i^{th} \text{ PORT} \\ \text{U}_t \text{=} \text{UTILIZATION THRESHOLD} \\ \lambda_k \text{=} \text{CALL ARRIVAL RATE FOR } k^{th} \text{ PVG PAIR} \\ N_k \text{=} \text{NUMBER OF CALLS FOR WHICH BANDWIDTH IS ALLOCATED TO } k^{th} \text{ PVG PAIR} \\ (1/\mu) \text{=} \text{AVERAGE CALL HOLDING TIME} \\ p_{B_i} \text{=} \text{BANDWIDTH CORRECTION FACTOR DUE TO } i^{th} \text{ PORT} \\ f_k \text{=} \text{BANDWIDTH CORRECTION FACTOR ASSIGNED TO THE } k^{th} \text{ PVG PAIR} \\ T \text{=} \text{BLOCKING THRESHOLD} \\ \end{array}$

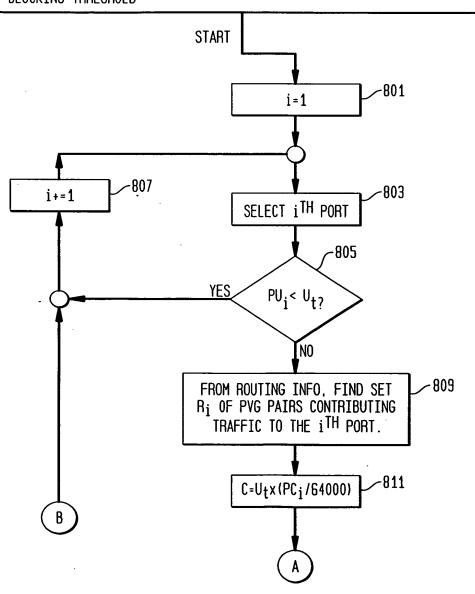
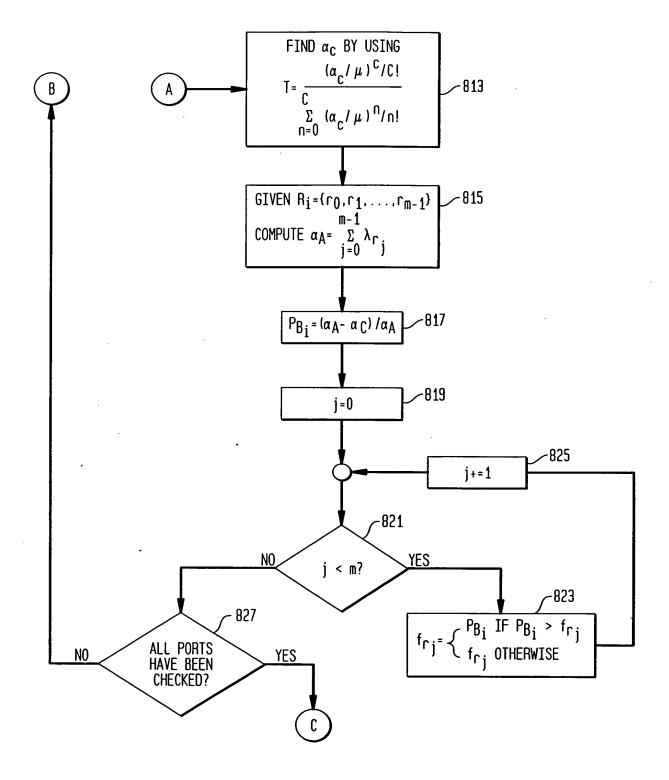


FIG. 8B



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FIG. 8C

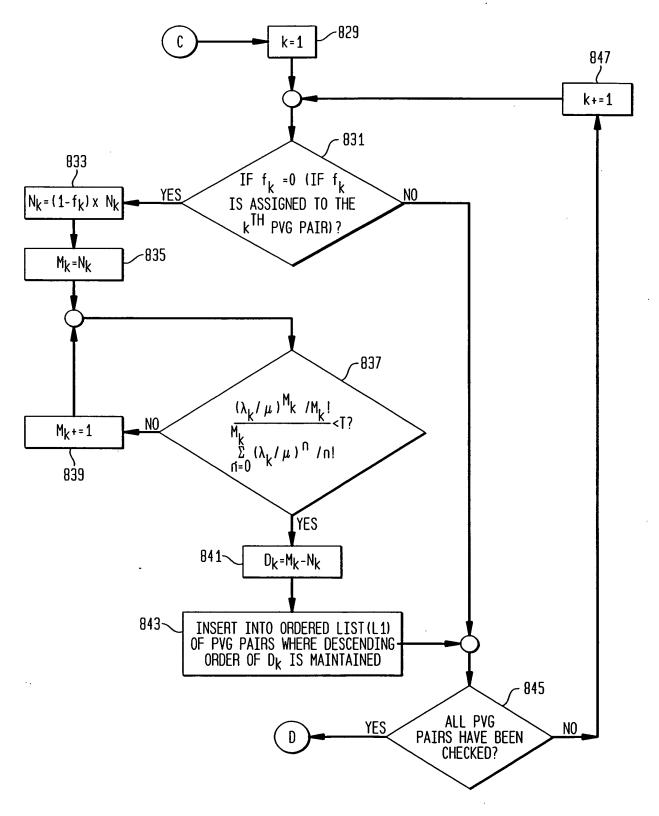
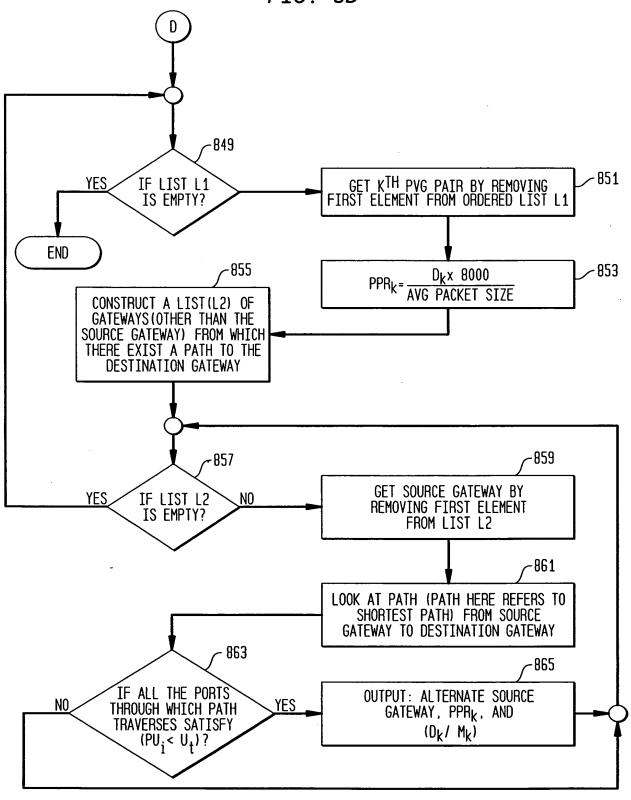


FIG. 8D



PAROVED O.G. FIG.

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FIG. 9A

900

COMPRESSION (AVAILABILITY/UNAVAILABILITY OF RTP MEASUREMENTS)

U; =UTILIZATION OF i th PORT

PC_i=CAPACITY OF ith PORT

U_t=UTILIZATION THRESHOLD

AL=CALL ARRIVAL RATE FOR kth PVG PAIR

N_k=NUMBER OF CALLS FOR WHICH BANDWIDTH IS ALLOCATED TO kth PVG PAIR CCR_k=CURRENT COMPRESSION RATE ALLOCATED TO kth PVG PAIR

 $\rho_{\mbox{\footnotesize{B}}_{\mbox{\footnotesize{g}}}}\mbox{=}\mbox{\footnotesize{BANDWIDTH}}$ REDUCTION FACTOR DUE TO THE $i^{\mbox{\footnotesize{th}}}$ PORT

 $p_{G_i}^{\ \ i}$ =BANDWIDTH INCREMENTAL FACTOR DUE TO THE i^{th} PORT

 f_k =BANDWIDTH REDUCTION CORRECTION FACTOR ASSIGNED TO THE k^{th} PVG PAIR e_k =BANDWIDTH INCREMENTAL CORRECTON FACTOR ASSIGNED TO THE k^{th} PVG PAIR $(1/\mu)$ =AVERAGE CALL HOLDING TIME

T=BLOCKING THRESHOLD

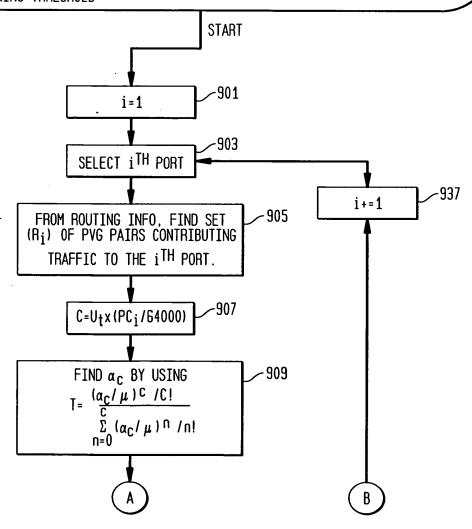


FIG. 9B

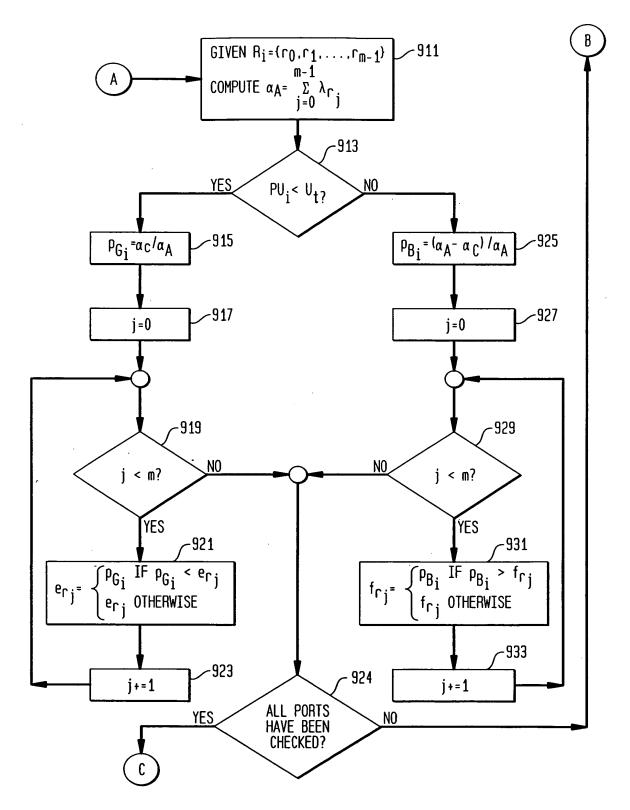


FIG. 9C

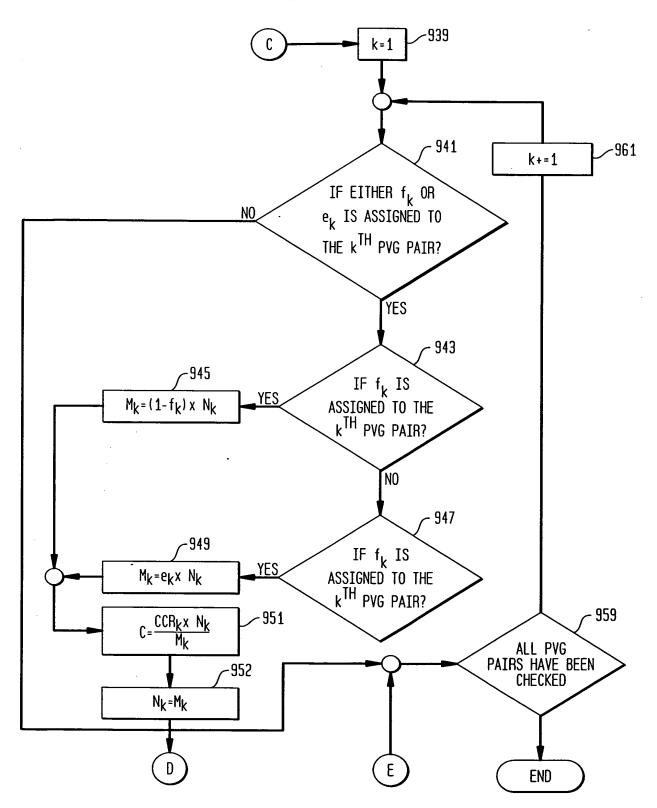




FIG. 9D

